NISTELROOY REYNOLD

Contact

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https://0xrooy.github.io/

About Me

Final semester computer science undergraduate with strong academic grounding in operating systems, computer architecture, and algorithms. Experience with C & C++ through coursework, projects and independent Linux learning, with growing interest in systems and low level programming. Enthusiast learner with strong passion for embedded software development, and eager to gain deeper industry experience. Available January 2026 for 4 - 6 month internship.

Languages

- English (Fluent)
- Malay (Fluent)
- Iban (Native)

Availability

Ready to start from January for 4-6 months internship

Education

Bachelor of Computer Science
Universiti Teknologi MARA (UiTM) Shah Alam   **2022 - 2026**
- Finished courses such as operating systems, computer organization & architecture, and Principles of Compiler.
- Strongly focused on security topics such as cryptographic algorithms and computer security.

Experience

Internship
Kapit District Council (KDC)   **22 SEPT 2025 - 26 DEC 2025**
- Supporting digital transformation initiative that implemented by state government and apply it to the local government.
- Designing departmental information systems such as mock ups, slides and brochure to improve citizens awareness.
- Assist in digital workflows for administrative activities.
- Monitoring and managing council's physical digital infrastructure.

Project

RSA Encryption Game   **JUNE 2025**
- Developing RSA Encryption web game using simple stack of HTML, PHP, CSS and MySQL.
- Collaborate with my friends by optimizing the use of Git, GitHub, and Shell Script for automation purpose.
- Using Docker to containerized the project for sharing purpose.

Direct Democracy Web Application Using Fully Homomorphic Encryption   **APRIL 2025**
- Integrated Fully Homomorphic Encryption library using Fast API backend, protecting voting data through encrypted data processing.
- Used Next.js framework and MongoDB as a database to scale the web.
- Explored Docker and Git to manage and documenting the project along with Shell Script for automation.

Skills

Programming
- C (Basic), C++ (Intermediate), Python (Intermediate)

Systems & Tools
- Linux/Ubuntu (Intermediate), Git & GitHub (Intermediate)
- Shell Scripting (Intermediate), Docker (Basic)
- gdb, Valgrind (Basic)

Software Engineering
- Software Development Life Cycle (SDLC)
- Debugging

Soft Skills
- Advocate for Teamwork
- Enjoy creative Problem Solving
- Disciplined and active Self Learning